

Work Order ID 156662

Monday, February 06, 2017 11:04:33 AM

156662

Page 1

Item ID: D4047-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Short Basket Lid Assembly
Start Date: 3/20/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 3/24/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan:  Date: FEB 06 2017 Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4047	A

100 Weld per dwg A/R S.S. rod Batch: 3133989 0.00***100***

Large Fab

Large Fab

Memo

0.29

- 1- assemble ribs , weld as per dwg D4047
- 2- weld hinge and Mounting brackets as per dwg D4047
- ***inspect before welding mesh***
- 3- tack weld mesh on basket as per dwg D4047
- 4- weld label plate

1x CC 17-3-301x 17-04-03

110

QC9- Inspect visual per QSI004- Fusion Welds 0.00

110

QC

Quality Control

Memo

0.00

① 17-04-03DAS
9
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By 	
								Lead hand / Supervisor Approval Verification 	
QC / QA Coordinator Approval 									

Root Cause				FAULT CATEGORY			
☐ Environment	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
☐ Design	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
☐ Doc/Data	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
☐ Equip/Tooling	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
☐ Handling/Pre	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
☐ Material	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
☐ Internal Transport	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
☐ Tribal Knowledge	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
☐ LOA	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
☐ Substation	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
☐ Past Expiry Date	☐ Manufacturing Process	OTHER : 					
☐ Misidentified	☐ Past Due						

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Page 2

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Accept

N900040100Setup Start ***NS1***

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Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start ***NR1***

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC5- Inspect part completeness to step on W/O

0.00

120

QC

Memo

0.00

Quality Control

① 1704.05

DAS
9
9-89

125

Pressure Wash per QSI005 4.3

0.00

125

HandFinish

Memo

0.00

Hand Finishing

1 φ 1704.5.

338

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WORK ORDER NON-CONFORMANCE / UPDATE

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Page 3

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Powdercoat Powder Coating	Black Sandtex(Ref:4.3.5.7) per QSI005 4.3 <i>M13638</i> Memo 1- Plug holes prior to 1ST COAT: <i>3:50</i> START TIME: <i>3:50</i> OVEN TEMPERATURE: <i>300</i> FINISH TIME: <i>4:20</i> ***** 2nd coat if necessary ***** 2ND COAT: START TIME: _____ OVEN TEMPERATURE: _____ FINISH TIME: _____	0.00 0.04				<i>1</i>	<i>0</i>	<i>1704-5</i>	<i>35 34 33</i>
135 *135* HandFinish Hand Finishing	Wing Walk as per dwg QSI005 4.4 Batch <i>M13709</i> Memo Mask label plate and Wing Walk and Spray Paint black as per Dwg D4047 and QSI 005 4.4	0.00 0.09							<i>1 x 9 of 20 17/04/05</i>

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Design ☐	☐ Operator	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	☐ Offset/Setup	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
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Substation ☐	☐ Process Improvement	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : ☐					
Misidentified ☐	☐ Past Due						

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140 *140* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00				1			DAS 38 9-89 APR 11 2017
150 *150* Packaging Packaging	Identify as per dwg & Stock Location: <u>wb</u> Memo	0.00 0.00				1	1	1	17/4/13
160 *160* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.02							17/4/13

DAS
21
9-89
APR 11 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Picklist Print

Monday, February 06, 2017 11:04:39 AM

Page 1

Work Order ID: 156662

156662

Parent Item: D4047-041

D4047-041

Parent Item Name: Short Basket Lid Assembly

Start Date: 3/20/2017

Required Date: 3/24/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP RevA: new issue DD 10.01.12 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D2581 Manufactured No

100 Each 96.0000 2 2

D2581

**

CC 17-3-29

Mounting Bracket

Location

Loc Qty

Loc Code

WA004

96

B156869 →

(2x)

132771

1

136270

2

139082

2

147603

2

148944

17

152803

48

155305

24

D4016-3 Manufactured No

100 Each 54.0000 3 3

D4016-3

**

CC 17-3-29

Hinge Half, Lid

Location

Loc Qty

Loc Code

WA004

54

B154823 →

(3x)

147975

9

153043

8

155384

37

D4021-3 Manufactured No

100 Each 21.0000 1 1

D4021-3

**

CC 17-3-29

Data Plate

Location

Loc Qty

Loc Code

WA004

21

152315

3

153343

6

155383

12

(1x)

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐			FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
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Parent Item: D4047-041

D4047-041

Parent Item Name: Short Basket Lid Assembly

Start Date: 3/20/2017

Required Date: 3/24/2017

Start Qty: 1.00

Required Qty: 1.00

✓ D4046-7	Manufactured	No	100	Each	0.0000	1	1	
D4046-7								B156690 → (1x) ** CC 17-3-29
Mesh Lid								
✓ D4047-043	Manufactured	No	100	Each	0.0000	2	2	
D4047-043								B158584 → (2x) ** CC 17-3-29
Rib Assembly								
D4047-1	Manufactured	No	100	Each	0.0000	2	2	
D4047-1								B158583 → (2x) ** CC 17-3-29
Rib								
✓ D4047-5	Manufactured	No	100	Each	0.0000	2	2	
D4047-5								B158585 → (2x) ** CC 17-3-29
Rib								
D4047-7	Manufactured	No	100	Each	0.0000	6	6	
D4047-7								B158582 → (6x) ** CC 17-3-29
Rib								

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

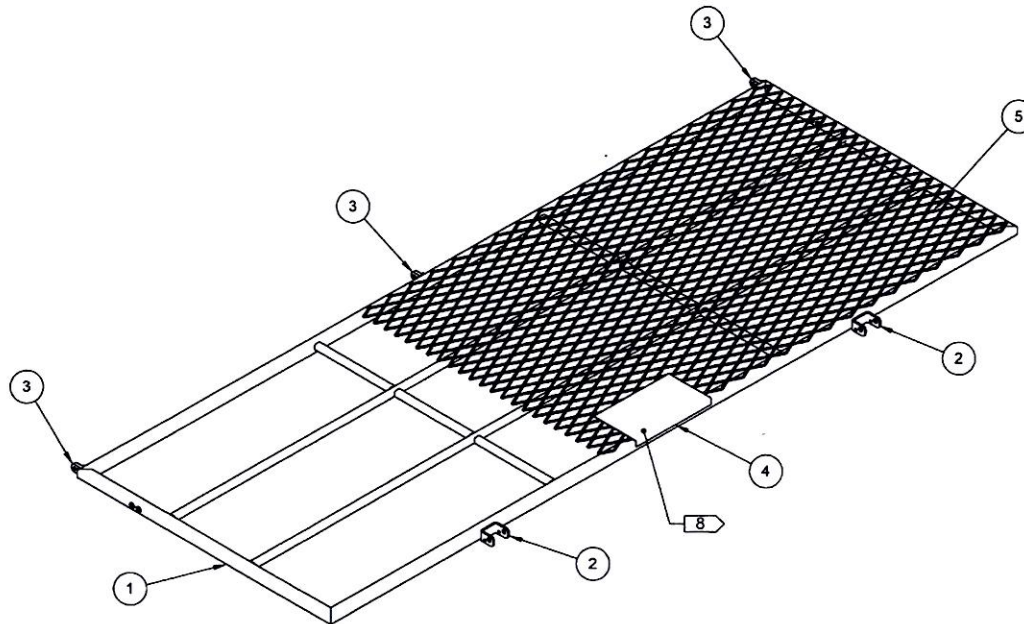


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		OTHER : ☐																							

ITEM	QTY	P/N	DESCRIPTION
	X	D4047-041	SHORT BASKET LID ASSY
1	1	D4047-101	LID FRAME ASSY
2	2	D2581	MOUNTING BRACKET
3	3	D4016-3	HINGE HALF, LID
4	1	D4021-3	LABEL PLATE
5	1	D4046-7	MESH



D4047-041 SHORT BASKET LID ASSY
(MESH SHOWN LOCALLY FOR CLARITY)

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 156668

FEB 06 2017 RELEASED
2010-02-16
MND

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 14.17 lbs APROX
- 8) APPL BLACK ANTI-SKID PAINT TO TOP SURFACE OF MESH, EXCEPT ON D4021-3 LABEL PLATE PER DART QSI 005 4.4

A	NEW ISSUE	RF	10.01.29
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED	RF		
MFG. APPR.	RF		
APPROVED	RF		
DE APPR.	RF		
DATE	10.01.29		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D4047
REV. A
SHEET 1 OF 6
TITLE SHORT BASKET LID ASSY
SCALE NTS

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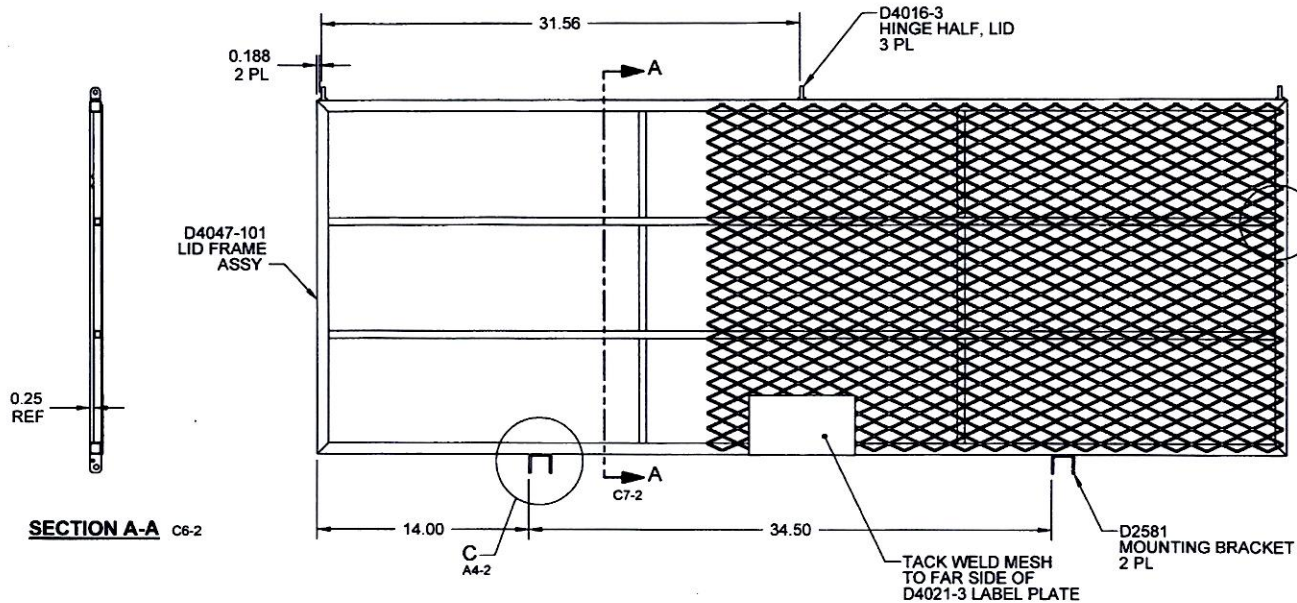
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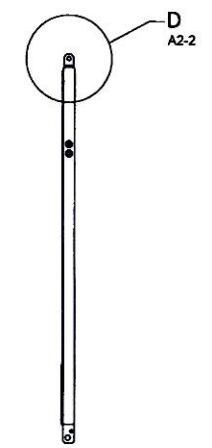
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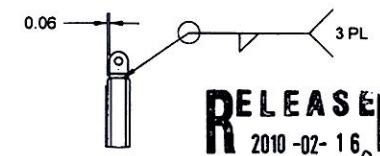
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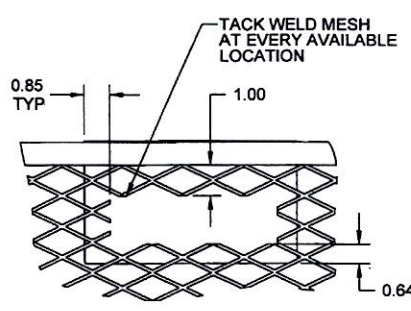
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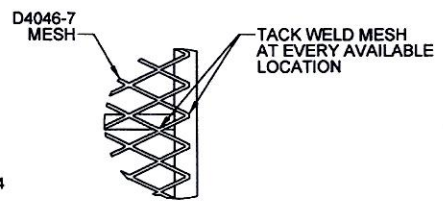
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SCALE 2X



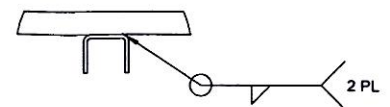
RELEASED
2010-02-16
[Signature]



DETAIL E B4-2
SCALE 2X



DETAIL B D2-2
SCALE 2X



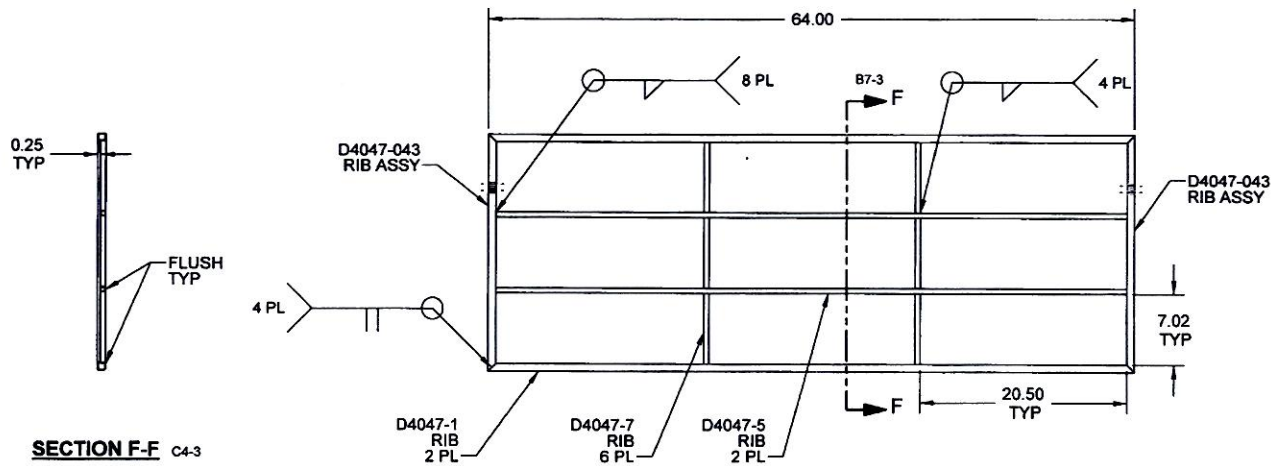
DETAIL C B6-2
SCALE 2X

D4047-041 SHORT BASKET LID ASSY

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RF	D4047	SHEET 2 OF 6
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	SHORT BASKET LID ASSY	NTS
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8 7 6 5 4 3 2 1

ITEM	QTY -101	P/N	DESCRIPTION
	X	D4047-101	LID FRAME ASSY
1	2	D4047-043	RIB ASSEMBLY
2	2	D4047-1	RIB
3	2	D4047-5	RIB
4	6	D4047-7	RIB



D4047-101 LID FRAME ASSY

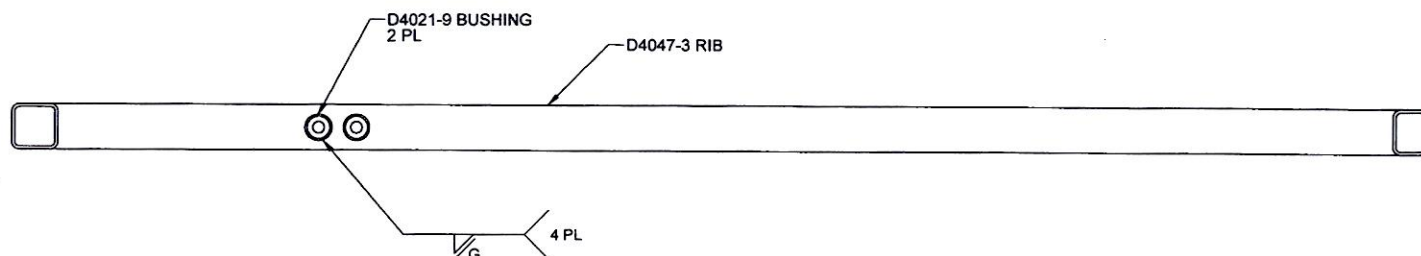
RELEASED
2010-02-16
MD

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 10.33 lbs
- 8) WELD PER DART QSI 004

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>GP</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>SS</i>	D4047	SHEET 3 OF 6
APPROVED	<i>MD</i>	TITLE	SCALE
DE APPR.	<i>MD</i>	SHORT BASKET LID ASSY	NTS
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ITEM	QTY	P/N	DESCRIPTION
	X	D4047-043	RIB ASSEMBLY
1	1	D4047-3	RIB
2	2	D4021-9	BUSHING



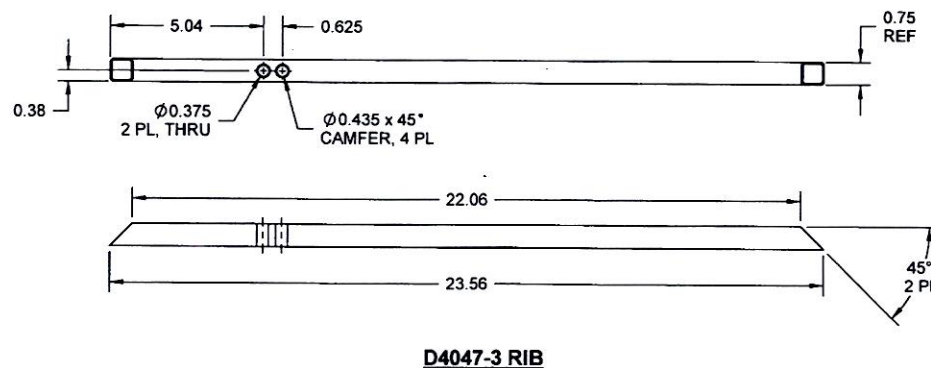
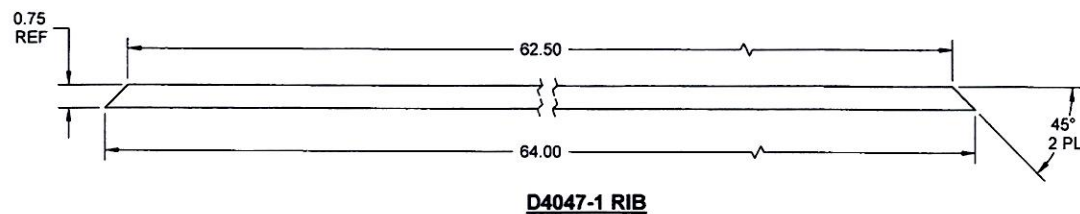
D4047-043 RIB ASSEMBLY

RELEASED
2010-02-16
MP

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.88 lbs
- 8) WELD PER DART QSI 004

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RF	D4047	SHEET 4 OF 6
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	SHORT BASKET LID ASSY	NTS
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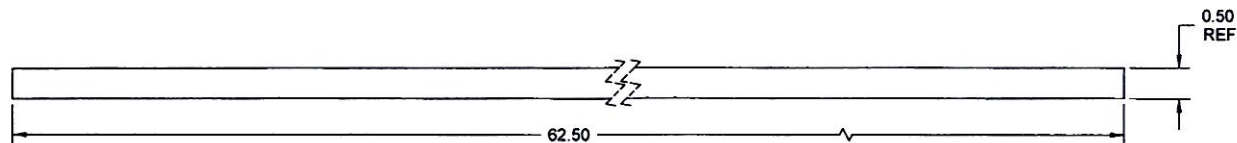


RELEASED
2010-02-16
MAD

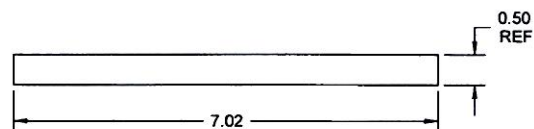
NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBE, 0.75 x 0.75 x 0.049 WALL
REF DART SPEC: M304TS0.750W.049
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: D4047-1: 2.63 lbs
D4047-3: 0.84 lbs

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RF	D4047	SHEET 5 OF 6
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	SHORT BASKET LID ASSY	NTS
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D4047-5 RIB



D4047-7 RIB

RELEASED
2010-02-16
MP

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBE, 0.50 x 0.50 x 0.049 WALL
REF DART SPEC. M304TS0.500W.049
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: D4047-5: 1.44 lbs
D4047-7: 0.16 lbs

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>RF</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>RF</i>	D4047	SHEET 6 OF 6
APPROVED	<i>RF</i>	TITLE	SCALE
DE APPR.	<i>RF</i>	SHORT BASKET LID ASSY	NTS
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